

## 32-20606: Recombinant Human TLR-3(Discontinued)

**Alternative Name :** Toll-like receptor 3, CD283 antigen

### Description

**Source:HEK293 cells**

TLR-3 is a single-pass type I receptor that binds to and signals the presence of microbial pathogens and double stranded RNA (dsRNA) viruses. Signaling through TLR-3 can promote the NF- $\kappa$ B pathway to initiate innate and adaptive immune responses to bacterial and viral infections, as well as the p53 pathway to trigger apoptosis in cells infected with dsRNA viruses. TLR-3 belongs to a family of structurally-related toll-like receptors (TLRs) containing an N-terminal domain rich in leucine repeats, and a C-terminal intracellular Toll/interleukin (IL)-1 (TIL) domain. TLR-3 is expressed primarily in dendritic cells of the placenta and pancreas where it can reside on both sides of the plasma membrane, and in the endosomal compartment of the cells. Recombinant Human TLR-3 is 77.4 kDa glycoprotein containing 681 residues which comprise the TLR-3 extracellular domain.

### Product Info

**Amount :** 5  $\mu$ g / 25  $\mu$ g

**Purification :** Purity: $\geq$  95% by SDS-PAGE gel and HPLC analyses.

**Content :** This recombinant protein is supplied in lyophilized form.

**Amino Acid :** STTKCTVSHE VADCSHLKLT QVPDDLPTNI TVLNLT HNQL RRLPAANFTR YSQLTSLDVG FNTISKLEPE  
LCQKLPMLKV LNLQHNELSQ LSDKTFAFCT NLTELHLSMN SIQKIKNNPF VKQKNLITLD LSHNGLSSTK  
LGTQVQLENL QELLSNNKI QALKSEELDI FANSSLKLE LSSNQIKEFS PGCFAIGRL FGLFLNNVQL  
GPSLTEKLCL ELANTSIRNL SLSNSQLSTT SNTTFLGLKW TNLTMLDLSY NNLNVVGNDS FAWLPQLEYF  
FLEYNNIQHL FSHSLHGLFN VRYLNLKRSF TKQSISLASL PKIDDFSQW LKCLEHLNME DNDIPGIKSN  
MFTGLINLKY LSLSNSFTSL RLTNETFVS LAHSPLHILN LTKNKISKIE SDAFSWLGHL EVLDLGLNEI  
GQELTGQEW R GLENIFEIYL SYNKYQLTR NSFALVPSLQ RLMLRRVALK NVDSSPSPFQ PLRNLTIDL  
SNNNIANIND DMLEGLEKLE ILDLQHNNLA RLWKHANPGG PIYFLKGLSH LHILNLESNG FDEIPVEVFK  
DLFELKIIDL GLNNLNTLPA SVFNNQVSLK SLNLQKNLIT SVEKKVFGPA FRNLTELMR FNPFDCTCES  
IAWFVNWINE THTNIPELSS HYLCNTPPHY HGFVRLFDT SSCKDSAPFE L

### Application Note

Determined by its ability to neutralize Poly I:C induced NF- $\kappa$ B signaling in HT-29 cells stably transfected with NF- $\kappa$ B-luc. The  $ED_{50}$  for this effect is 5-10  $\mu$ g/ml.